If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.

Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ

Training Office, Bldg. 911A.

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.ad MUON Storage Ring Sweep Checklist

4.56			
	Hand Processed	Changes	
IPC No.	<u>Date</u>	Page Nos.	<u>Initials</u>
Approved:	Signature on ollider Accelerator l	Prile Department Chairman	<u></u>

MUON Storage Ring Sweep Checklist

Team lea	nderOperator 2	
Operator	3	
Time:	Date:	
	Warning:	
ONCE A SWEEP IS COMPLETE, ANY WORKER LEFT IN THE ENCLOSURE MUST HAVE A CA(EB003)		
time. IF asked to le	KEY. sonnel are encountered during the sweep, THEN determine whether their work will be completed in a short the work will take a long time, THEN contact the OC to see if the sweep should be aborted or the workers ave to obtain a CA(EB003) key. IF the work will be completed in a SHORT time, THEN write the name(s) he workers at the end of the checklist and verify that they leave the enclosure WITH the sweep team.	
<u>Prerequ</u>	<u>isites</u>	
 EN Th Mu Re TL Wa Page 	NOTE: BANK/CREDIT CARDS MAY BE ERASED WHEN THE RING IS ERGIZED Tree persons to perform the sweep, son Storage Ring Sweep Checklist for C-A-OPM-ATT 4.56.ad (two sheets) quired Tools: at least one flashlight, D Likie-talkie flock for Crane Cab ladder sys: Controlled Access (EB003) and Sweep/Reset (EB002) keys	
	Note: All Doors Building Must Be Closed Before The Sweep Is Begun.	
<u>check</u> 12.	Team Leader contacts MCR to verify that Muon Ring area is on Controlled Access. Sweep Team goes to Building 919 Control Room Gate (MGE1).	
Ope	Note: rator in MCR must hold MGE1 PanelView gate release button until told by Team Leader to release the button.	
3. 4.	Team Leader requests simultaneous release from MCR. Team leader opens MGE1 gate by turning the CA(EB003) key in the OPEN key-switch while Operator in MCR presses simultaneous release. CONTINUED ON REVERSE SIDE	

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5.	Sweep Team enters MGE1 gate and closes the door behind them.
6.	Team Leader radios MCR operator to report when MGE1 is closed.
7.	Operators proceed to the stairs leading down to the center of the ring.
8.	Team Leader gives this checklist AND S/R(EB002) key to Operator #2.
9.	Team Leader stands static watch on platform above magnet while Operators #2 & #3 go
	down onto floor to begin sweep of the area at the center of the magnet.
10.	Operators #2 & #3 proceed to the reset-station located on the equipment rack in the center of the
	ring.
11.	Operator # 2 resets reset-station #1 by inserting and turning the S/R(EB002) key in the SWEEP
	key-switch.
12.	Observe the AREA SECURED amber lamp light for 2 seconds.
13.	Operators #2 & #3 sweep out from the center of the ring, IN OPPOSITE (CW & CCW)
	DIRECTIONS, and rejoin Team Leader at the top of the stairs.
14.	Sweep Team proceeds to the stairs next to MGE1 that lead to the outside of the Storage Ring.
15.	Team Leader instructs Operator #2 (with S/R#2 key, this checklist, and padlock) to sweep CW
	around the ring, to stop at barrier created by the V1 line and wait there for Operator #3.
16.	Team Leader instructs Operator #3 to sweep CCW around the ring, and meet Operator #2 at the
	"MED12 side" of the V1 line (beam left).
17.	Team Leader stands static watch atop the platform at the stairs leading down to the outside of the
	Muon Storage Ring.
18.	Operator #2 proceeds CW around the ring to space under the stairs (UNDER MGE1).
19.	Operator #2 resets reset-station #2 by turning the S/R(EB002) key in the SWEEP key switch.
20.	Observe the AREA SECURED amber lamp light for 2 seconds.
21.	Operator #2 sweeps CW around the ring until the Crane Cab Ladder is reached.
22.	IF the barrier to the Crane Cab ladder is padlocked, THEN continue, ELSE padlock it.
23.	Operator #2 sweeps CW around the ring, to the V1 Line and stops when Operator #3 is reached.
24.	Operator #2 gives the S/R(EB002) key and this checklist to Operator #3.
25.	Operator # 2 walks completely around the ring in the CW direction and stands static watch at the
	inflector.
26.	Operator #2 stands Static watch at the inflector until Operator #3 resets MED12, then returns (CW
	direction) to the stairs leading to MGE1 and awaits Operator #3.
27.	
28.	Operator #3 checks that door (MED12) is closed and locked.
29.	Operator #3 resets reset-station #3 by turning the S/R(EB002) key in the SWEEP key switch.
30.	Observe the AREA SECURED amber lamp light for 2 seconds.
31.	Operator #3 resets MED12 (southwest escape) door by turning the S/R(EB002) key in the RESET
	key-switch.
32.	Observe the GATE RESET amber lamp light, If the gate was <u>not</u> previously reset.
33.	Operator #3 sweeps down the ladder and proceeds CW around the ring away from the inflector
	where Operator 2 is standing static watch.
34.	
	key and this checklist) sweeps CW and Operator #2 sweeps CCW.
35.	Operator #3 sweeps to roll up door and gate MED3.
36.	Operator #3 checks that door (MED3) and adjacent roll-up door are closed and locked.

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37.	Operator #3 ends the sweep by turning the S/R(EB002) key in the SWEEP key switch on the Gate Box next to MED3.
38.	Operator #3 resets MED3 door by turning the S/R (EB002) key in the RESET key-switch.
39.	Observe the GATE RESET amber lamp light on the gate box if the gate was not
	previously reset.
40.	Observe the AREA SECURED amber light will remain lit.
41.	Operator #3 sweeps towards the stairs at MGE1.
42.	Operator #3 and Operator #2 meet at bottom of stairs to MGE1, and proceed up the stairs
	to rejoin Team Leader.
43.	Sweep Team Sweeps to inside of MGE1.
44.	Team Leader requests a simultaneous release from MCR.
	Note:
	Operator in MCR must hold MGE1 PanelView gate release button until told by Team
	Leader to release button.
45.	Sweep Team sweeps out the MGE1 gate.
46.	Team Leader radios MCR operator to report when MGE1 is closed.
47.	Observe the area secured light will be lit and remains on.
	Note:
	Since MGE1 is a Remote Controlled Access Gate, it can only be reset from the MCR
	PanelView
48.	Team Leader verifies with operator in MCR that the zone is swept and that two (MED3,
	MED12) gates are reset.
49.	Contact HP to reinstall "Radiation Area" rope posting on Ramp/Driveway to Building 919.
50.	Sweep Team (at conclusion of all sweeps) returns to MCR.
51.	Capture CA (EB003) and S/R (EB002) keys in the key tree.
52.	Reset gate MGE1 in MCR.
53.	Confirm gate MGE1 is reset using PanelView.
54.	Team Leader files completed checklist in Completed Sweep Checklist Binder.